Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP 2018-12-11-58 **Date: 05-08-2017**
Customer	:	Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP,
Address	:	T. Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Embankment and Site Preparation to Indira canteen in ward no. 14
Agency	:	Sri. Manjunath S, No.62 behind Widia, Ashok Nagar, Nagasandra, Bangaore - 73
Customer's Reference	:	ಕಾ.ಅ/ದಾ.ವಿ/ಕಾ.ಅ/ /2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-08-2017
Sample ID No	:	2018-12-11-58 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	03-08-2017
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.16	–
2	Finess by Air permeablity method (m^2/kg,Min)	289.5	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	274 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.3mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Certificate No.: TC- 5648 - 5648

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Format No: CP/TF/01

Lab ID	:	**CP 2018-12-11-58**
Customer	:	Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore. **Date: 31-08-2017**
Address	:	T. Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Embankment and Site Preparation to Indira canteen in ward no. 14
Agency	:	Sri. Manjunath S, No.62 behind Widia, Ashok Nagar, Nagasandra, Bangaore - 73
Customer's Reference	:	ಕಾ.ಅ/ದಾ.ವಿ/ಕಾ.ಆ/ /2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-08-2017
Sample ID No	:	2018-12-11-58 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	03-08-2017
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.6N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.7N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.9N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP 2018-12-11-58**
Customer	:	Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore. **Date: 04-08-2017**
Address	:	T. Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Embankment and Site Preparation to Indira canteen in ward no. 14
Agency	:	Sri. Manjunath S, No.62 behind Widia, Ashok Nagar, Nagasandra, Bangaore - 73
Customer Reference	:	ಕಾ.ಅ/ದಾ.ವಿ/ಕಾ.ಆ/ /2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-08-2017
Sample ID No	:	2018-12-11-58 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-08-2017

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	152	152	3.0	97.0	90-100
3	10 mm	2598	2750	55.0	45.0	25-55
4	4.75 mm	2055	4805	96.1	3.9	0-10
5	Pan	195	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Format No: CP/TF/01

Lab ID : **CP 2018-12-11-58**

Sample ID No : 2018-12-11-58 /02(b)

Date: 04-08-2017

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.41	–
5	Bulk Density(Compacted) (Kg/l)	1.48	–
6	Water Absorption(%)	0.32	–
7	Aggregate crushing Value(%)	28.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.9	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

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All information furnished by Customer/Representative

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Quality Manager

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Format No: CP/TP/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP 2018-12-11-58**

Date: 04-08-2017

Customer : Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.

Address : T. Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Embankment and Site Preparation to Indira canteen in ward no. 14

Agency : Sri. Manjunath S, No.62 behind Widia, Ashok Nagar, Nagasandra, Bangaore - 73

Customer's Reference : ಕಾ.ಅ/ದಾ.ವಿ/ಕಾ.ಆ/ /2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-08-2017

Sample ID No : 2018-12-11-58 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 02-08-2017

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	19	19	1.9	98.1	90-100	90-100	90-100	95-100
3	2.36 mm	214	233	23.3	76.7	60-95	75-100	85-100	95-100
4	1.18 mm	185	418	41.8	58.2	30-70	55-90	75-100	90-100
5	600 micron	162	580	58.0	42.0	15-34	35-59	60-79	80-100
6	300 micron	179	759	75.9	24.1	5-20	8-30	12-40	15-50
7	150 micron	166	925	92.5	7.5	0-10	0-10	0-10	0-15
8	Pan	75	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP 2018-12-11-58

Sample ID No : 2018-12-11-58 /03

Date: 04-08-2017

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.25	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	4.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP 2018-12-11-58** **Date: 19/08/2017**

Customer : Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.

Address : T. Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Embankment and Site Preparation to Indira canteen in ward no. 14

Agency : Sri. Manjunath S, No.62 behind Widia, Ashok Nagar, Nagasandra, Bangaore - 73

Customer's Reference : ಕಾ.ಅ/ದಾ.ವಿ/ಕಾ.ಆ/ /2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-08-2017

Sample ID No : 2018-12-11-58 /01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/08/2017	19/08/2017	150.54 X 150.45 X 150.48	22649	8.312	280.8	12.4	12.3
2	PCC	M15	12/08/2017	19/08/2017	150.54 X 150.45 X 150.32	22649	8.331	285.4	12.6	
3	PCC	M15	12/08/2017	19/08/2017	150.54 X 150.35 X 150.41	22634	8.345	269.3	11.9	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 09/09/2017

Lab ID	:	014-18-000346
Customer	:	Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T. Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Embankment and Site Preparation to Indira canteen in ward no. 14
Agency	:	Sri. Manjunath S, No.62 behind Widia, Ashok Nagar, Nagasandra, Bangaore - 73
Customer's Reference	:	ಪಾ.ಇ/ಟಿ.ದ/ಪಾ.ಇ/ /2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-08-2017
Sample ID No	:	2018-12-11-58 /02
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	09/09/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/08/2017	09/09/2017	150.46 X 150.38 X 150.51	22626	8.312	391.4	17.3	17.5
2	PCC	M15	12/08/2017	09/09/2017	150.58 X 150.61 X 150.47	22679	8.331	394.6	17.4	
3	PCC	M15	12/08/2017	09/09/2017	150.32 X 150.45 X 150.29	22616	8.345	402.6	17.8	

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TEST REPORT OF PRECAST COVER SLAB

Format No: CP/TF/01

Lab ID	:	**CP 2018-12-11-58**
Customer	:	Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore. **Date: 11-08-2017**
Address	:	T. Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Embankment and Site Preparation to Indira canteen in ward no. 14
Agency	:	Sri. Manjunath S, No.62 behind Widia, Ashok Nagar, Nagasandra, Bangaore - 73
Customer's Reference	:	ಕಾ.ಅ/ದಾ.ವಿ/ಕಾ.ಆ/ /2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-08-2017
Sample ID No	:	2018-12-11-58 /06
Sample Type /Size	:	250 mm thick Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	07/08/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	165.01	250.05	2.895	21381	305.9	14.3	13.3	16.6
2	Cover Slab-2	165.07	250.17	2.886	21397	308.1	14.4	13.4	16.7
3	Cover Slab-3	165.03	250.12	2.845	21386	307.5	14.4	13.4	16.7

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